

Name: key Class: \_\_\_\_\_ Date: \_\_\_\_\_

ID: R

## Pre Algebra QUIZ of solving multi-step equations

Show all work, circle all answers and justify each step!

Solve the equation.

1.  $36 - 18 + 7n = 81$

$$18 + 7n = 81$$

$$7n = 63$$

$$n = 9$$

2.  $5(y + 3) = 60$

$$5y + 15 = 60$$

$$5y = 45$$

$$y = 9$$

3.  $6p - 1 = 3(2p - 10) - 2(8 - 3p) - p$

$$6p - 1 = 6p - 30 - 16 + 6p - p$$

$$6p - 1 = 11p - 46$$

$$+1 \quad +1$$

$$6p = 11p - 45$$

$$-11p \quad -11p$$

$$\frac{5p}{5} = \frac{-45}{5}$$

$$p = 9$$